

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1175369

Luminaire Tested: S125RDRP-S375D927-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175369
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)
Test Lab: INNOVATION CENTER
Issue Date: 8/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S375D927-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

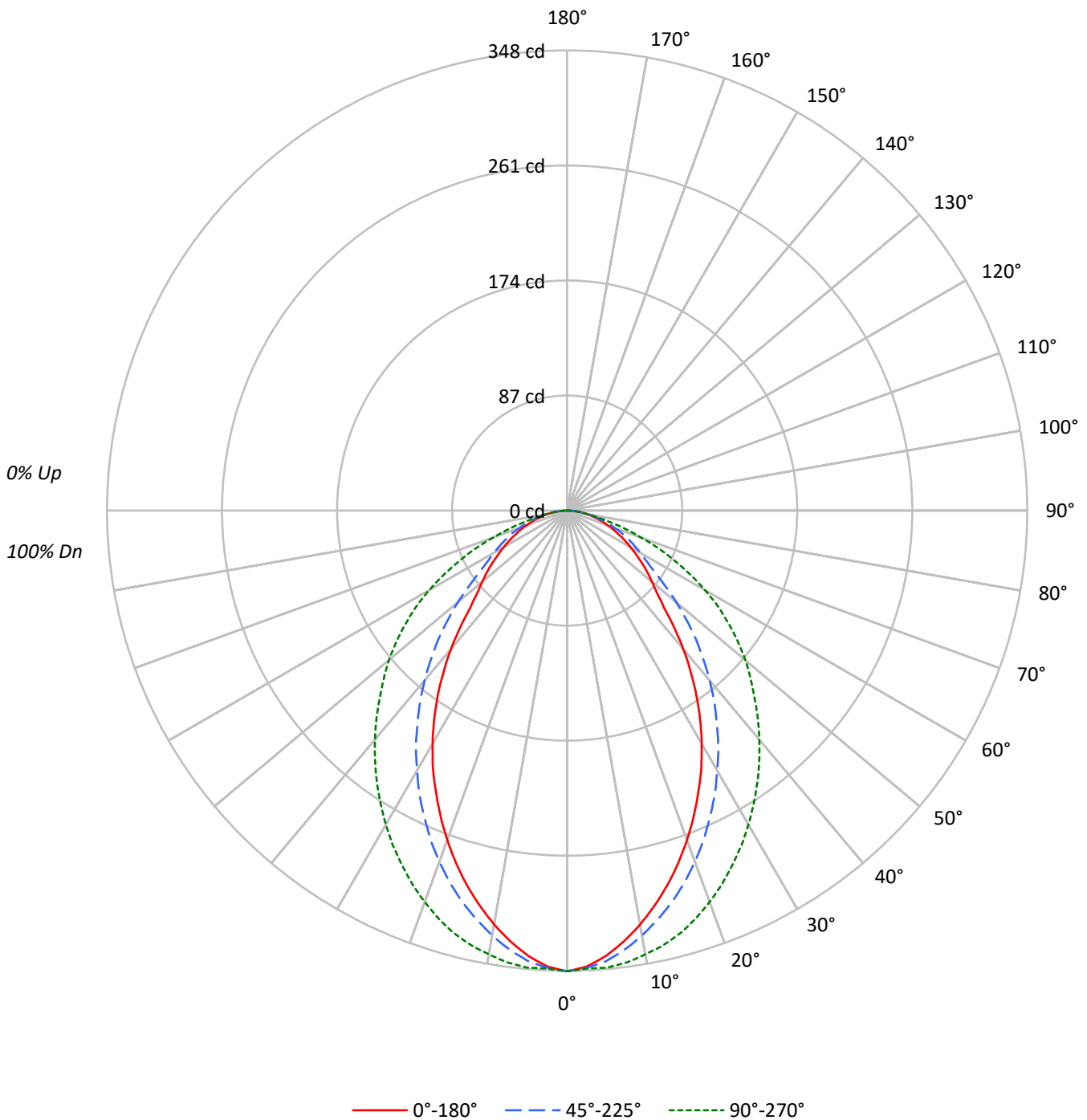
Lumens per Lamp: N/A
Luminaire Lumens: 656.3 lumens
Efficiency: N/A
Efficacy: 52.5 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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CATALOG NUMBER: S125RDRP-S375D927-X4F0-XX-UDD-WVL-W

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2399	2399	2399
5°	2336	2363	2398
10°	2223	2281	2382
15°	2089	2184	2359
20°	1942	2071	2308
25°	1784	1941	2246
30°	1618	1803	2180
35°	1432	1658	2108
40°	1228	1507	2031
45°	1008	1342	1952
50°	897	1154	1885
55°	827	965	1790
60°	762	880	1658
65°	709	829	1465
70°	660	773	1196
75°	622	716	897
80°	587	658	646
85°	537	656	537

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1952 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.3	4.9
10°-20°	86.9	13.2
20°-30°	119.6	18.2
30°-40°	126.9	19.3
40°-50°	111.0	16.9
50°-60°	85.2	13.0
60°-70°	56.8	8.6
70°-80°	29.1	4.4
80°-90°	8.6	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	238.8	36.4
0°-40°	365.6	55.7
0°-60°	561.9	85.6
0°-90°	656.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	656.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	348	348	348	348	348	
5°	338	342	342	344	347	32
15°	293	300	306	321	331	82
25°	235	243	256	277	296	108
35°	170	178	197	226	251	106
45°	104	112	138	172	200	82
55°	69	70	80	120	149	62
65°	44	44	51	67	90	43
75°	23	25	27	28	34	25
85°	7	8	8	8	7	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	348.4	348.4	348.4	348.4	348.4
2.5°	345.1	348.7	346.0	346.3	346.6
5°	338.0	342.5	341.9	344.3	346.9
7.5°	328.6	333.3	334.8	340.7	344.8
10°	317.9	323.3	326.2	335.1	340.7
12.5°	305.8	312.0	316.7	328.3	336.6
15°	293.1	299.9	306.4	320.9	330.9
17.5°	279.5	286.3	294.9	311.4	323.5
20°	265.0	272.4	282.7	300.5	315.0
22.5°	250.2	257.9	269.7	289.2	305.8
25°	234.8	242.8	255.5	277.1	295.7
27.5°	219.7	227.1	241.9	265.0	285.4
30°	203.5	211.2	226.8	252.3	274.2
32.5°	187.2	194.9	212.9	239.6	262.6
35°	170.4	178.3	197.3	226.2	250.8
37.5°	153.5	161.8	182.8	212.6	238.7
40°	136.6	145.5	167.7	199.0	226.0
42.5°	119.5	128.9	152.3	185.7	213.5
45°	103.5	112.1	137.8	172.1	200.5
47.5°	92.0	97.0	122.4	158.2	188.1
50°	83.7	86.1	107.7	144.9	176.0
52.5°	76.3	77.8	93.2	132.5	162.7
55°	68.9	70.4	80.4	119.5	149.1
57.5°	61.8	62.7	71.0	106.5	135.5
60°	55.3	55.9	63.9	93.5	120.4
62.5°	49.4	49.7	57.1	80.1	105.3
65°	43.5	43.8	50.9	66.8	89.9
67.5°	38.2	38.2	45.0	54.7	75.1
70°	32.8	32.8	38.4	44.4	59.4
72.5°	28.1	28.7	32.5	35.8	46.4
75°	23.4	24.8	26.9	28.4	33.7
77.5°	18.9	20.7	21.6	22.2	22.5
80°	14.8	16.0	16.6	16.9	16.3
82.5°	10.9	11.8	12.1	12.1	11.2
85°	6.8	7.7	8.3	8.0	6.8
87.5°	3.3	4.4	4.7	4.1	3.3
90°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	9.66	11.15	10.02	11.47	11.78	13.68	15.18	14.05	15.49	15.81
	3H	11.24	12.59	11.62	12.92	13.28	15.07	16.41	15.45	16.74	17.10
	4H	11.89	13.15	12.29	13.50	13.88	15.47	16.73	15.87	17.08	17.46
	6H	12.40	13.56	12.81	13.93	14.32	15.68	16.84	16.09	17.21	17.60
	8H	12.58	13.68	13.00	14.07	14.47	15.74	16.85	16.16	17.24	17.64
	12H	12.70	13.76	13.13	14.14	14.57	15.77	16.83	16.20	17.21	17.64
4H	2H	10.43	11.69	10.83	12.03	12.41	13.81	15.07	14.21	15.42	15.80
	3H	12.21	13.25	12.62	13.65	14.06	15.38	16.43	15.79	16.83	17.23
	4H	12.97	13.92	13.41	14.33	14.77	15.89	16.83	16.32	17.25	17.69
	6H	13.61	14.43	14.07	14.88	15.34	16.22	17.04	16.68	17.48	17.94
	8H	13.84	14.61	14.31	15.05	15.52	16.32	17.08	16.78	17.53	17.99
	12H	14.01	14.70	14.50	15.18	15.65	16.39	17.07	16.87	17.55	18.02
8H	4H	13.36	14.12	13.82	14.57	15.04	15.99	16.76	16.45	17.20	17.67
	6H	14.14	14.77	14.63	15.26	15.74	16.41	17.04	16.91	17.53	18.01
	8H	14.45	15.02	14.97	15.53	16.02	16.57	17.14	17.08	17.65	18.14
	12H	14.71	15.21	15.22	15.71	16.27	16.71	17.21	17.22	17.70	18.27
12H	4H	13.40	14.08	13.88	14.56	15.03	15.99	16.67	16.47	17.15	17.62
	6H	14.21	14.78	14.73	15.29	15.78	16.42	16.99	16.94	17.50	17.99
	8H	14.59	15.09	15.10	15.59	16.15	16.63	17.13	17.14	17.63	18.19